

**BEST AVAILABLE COPY****ASSIGNMENT**☐

U.S. Provisional Application

☒

U.S. Utility Patent Application

Attorney Docket No. 104473

WHEREAS, **LASZLO T. NEMETH**, a citizen of the United States of America, residing in the City of Palatine, in the County of Cook, and State of Illinois; **JEFFERY C. BRICKER**, a citizen of the United States of America, residing in the City of Buffalo Grove, in the County of Lake, and State of Illinois; **JULE RABO**, a citizen of the United States of America, residing in the City of Armonk in the County of Westchester and State of New York; and **RALPH D. GILLESPIE**, a citizen of the United States of America, residing in the City of Gurnee, in the County of Lake, and State of Illinois; and hereinafter referred to as "the inventors" have invented certain new and useful improvements in

**DIRECT CARBONYLATION OF PARAFFINS USING SOLID STRONG ACID CATALYSTS**

WHEREAS, the inventors hereby authorize and request their attorney/agent of record to have inserted on each page (where indicated below) the filing date and application number of said application when known; and

WHEREAS, UOP LLC, a company organized and existing under the laws of the State of Delaware having a principal place of business at Des Plaines, Illinois, is desirous of acquiring an interest in and to said application, the inventions disclosed therein, and the Letters Patent of the United States that may be issued thereon.

NOW, THEREFORE in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations the receipt of which is hereby acknowledged, said inventors do hereby transfer, set over and assign unto said UOP LLC, its successors and assigns, the entire right, title and interest in, to and under said application; the invention(s) covered thereby; any and all resultant patent or patents thereon; any renewals, reissues, extensions, reexaminations, substitutions, continuations, or divisions thereof, and all foreign rights thereunder including all rights to claim any priority in and to the inventions disclosed therein. Inventors hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said UOP LLC, its successors and assigns.

IN WITNESS WHEREOF, the inventors have set their signatures hereunto  
on the date specified below.

*L. T. Nemeth* 1/11/2000 01/27/00  
**LASZLO T. NEMETH** Date Date Executed  
Application for Letters Patent

State of Illinois  
County of Cook

Before me, on this day, 1/11/2000, personally appeared  
**LASZLO T. NEMETH**, to me personally known, who duly acknowledged the  
foregoing instrument to be his/her free and voluntary act and deed for the  
purposes therein expressed.

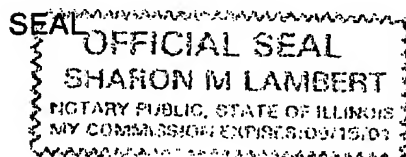


*Sharon M. Lambert*  
Notary Public

*Jeffery C. Bricker* 1/11/2000 1/11/2000  
**JEFFERY C. BRICKER** Date Date Executed  
Application for Letters Patent

State of Illinois  
County of Cook

Before me, on this day, 1/11/2000, personally appeared  
**JEFFERY C. BRICKER**, to me personally known, who duly acknowledged the  
foregoing instrument to be his/her free and voluntary act and deed for the  
purposes therein expressed.



*Sharon M. Lambert*  
Notary Public

*Jule Rabo* Jan 14, 2000 1/14/00  
JULE RABO Date Date Executed

Application for Letters Patent

State of New York  
County of Westchester

Before me, on this day, January 14, 2000, personally appeared  
**JULE RABO**, to me personally known, who duly acknowledged the foregoing  
instrument to be his/her free and voluntary act and deed for the purposes therein  
expressed.

SEAL

*Ann Leber*  
Notary Public

*Notary Public*  
Commission Expires 4/25/00

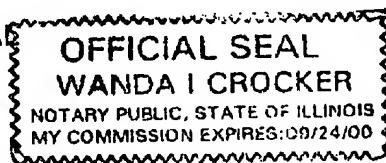
*Ralph D. Gillespie* 1/6/2000 1/06/00  
RALPH D. GILLESPIE Date Date Executed

Application for Letters Patent

State of Illinois  
County of Cook

Before me, on this day, JAN. 6, 2000, personally appeared  
**RALPH D. GILLESPIE** to me personally known, who duly acknowledged the  
foregoing instrument to be his/her free and voluntary act and deed for the  
purposes therein expressed.

SEAL



*Wanda I. Crocker*  
Notary Public



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

AUGUST 21, 2001

PTAS

UOP LLC  
JOHN G. TOLOMEI  
25 EAST ALGONQUIN ROAD  
P.O. BOX 5017  
DES PLAINES, ILLINOIS 60017-5017

**\*700006945A\***

\*700006945A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/20/2001

REEL/FRAME: 011879/0687  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

NEMETH, LASZLO T.

DOC DATE: 01/27/2000

ASSIGNOR:

BRICKER, JEFFERY C.

DOC DATE: 01/11/2000

ASSIGNOR:

RABO, JULE

DOC DATE: 01/14/2000

ASSIGNOR:

GILLESPIE, RALPH D.

DOC DATE: 01/06/2000

ASSIGNEE:

UOP LLC  
25 EAST ALGONQUIN ROAD  
P.O. BOX 5017  
DES PLAINES, ILLINOIS 60017-5017

SERIAL NUMBER: 09470631  
PATENT NUMBER:

FILING DATE: 12/22/1999  
ISSUE DATE:

## ASSIGNMENT

☐ U.S. Provisional Application☒ U.S. Utility Patent Application

Attorney Docket No. 106207-1

WHEREAS, RALPH D. GILLESPIE, a citizen of UNITED STATES OF AMERICA, residing in the City of GURNEE, in the County of LAKE and State of ILLINOIS, and MICHELLE J. COHN, a citizen of UNITED STATES OF AMERICA, residing in the City of GLENVIEW, in the County of COOK and State of ILLINOIS, and hereinafter referred to as "the inventors" have invented certain new and useful improvements in

### HIGH-ACTIVITY ISOMERIZATION CATALYST AND PROCESS

WHEREAS, the inventors hereby authorize and request their attorney/agent of record to have inserted on each page (where indicated below) the filing date and application number of said application when known; and

WHEREAS, UOP LLC, a company organized and existing under the laws of the State of Delaware having a principal place of business at Des Plaines, Illinois, is desirous of acquiring an interest in and to said application, the inventions disclosed therein, and the Letters Patent of the United States that may be issued thereon.

NOW, THEREFORE in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations the receipt of which is hereby acknowledged, said inventors do hereby transfer, set over and assign unto said UOP LLC, its successors and assigns, the entire right, title and interest in, to and under said application; the invention(s) covered thereby; any and all resultant patent or patents thereon; any renewals, reissues, extensions, reexaminations, substitutions, continuations, or divisions thereof, and all foreign rights thereunder including all rights to claim any priority in and to the inventions disclosed therein. Inventors hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said UOP LLC, its successors and assigns.

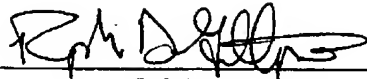
IN WITNESS WHEREOF, the inventors have set their signatures hereunto on the date specified below.

Application No. 718 050 filed 11-20-03

Atty. Docket # 106207-1

(Rev. 03-21-00)

Page 2 of 2



Ralph D. Gillespie

11/19/2003

Date

11/19/2003

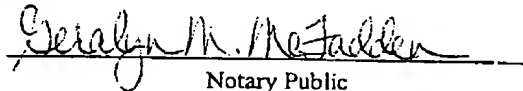
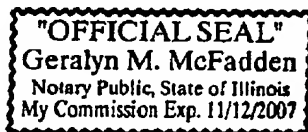
Date Executed

Application for Letters Patent

State of Illinois  
County of Cook

Before me, on this day, 11-19-03, personally appeared **RALPH D. GILLESPIE**, to me personally known, who duly acknowledged the foregoing instrument to be his/her free and voluntary act and deed for the purposes therein expressed.

SEAL



Notary Public



Michelle J. Cohn

11/20/2003

Date

11/20/2003

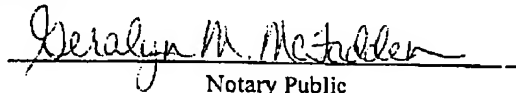
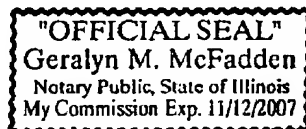
Date Executed

Application for Letters Patent

State of Illinois  
County of Cook

Before me, on this day, 11-20-03, personally appeared **MICHELLE J. COHN**, to me personally known, who duly acknowledged the foregoing instrument to be his/her free and voluntary act and deed for the purposes therein expressed.

SEAL



Notary Public

Application No. 101 718 050 filed 11-20-03

Atty. Docket # 106207-1

(Rev. 03-21-00)



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Washington, D.C. 20231



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UOP Patent Dept

DECEMBER 10, 2003

PTAS

UOP LLC  
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P.O. BOX 5017  
DES PLAINES, IL 60017-5017

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RECORDATION DATE: 12/09/2003

REEL/FRAME: 014184/0292  
NUMBER OF PAGES: 4

BRIEF: RECORD TO CORRECT WRONG APPL. NO. 10718,520 TO 10718,050  
PREVIOUSLY RECORDED AT REEL

ASSIGNOR:  
GILLESPIE, RALPH D.

DOC DATE: 11/19/2003

ASSIGNOR:  
COHN, MICHELLE J.

DOC DATE: 11/20/2003

ASSIGNEE:  
UOP LLC  
25 EAST ALGONQUIN ROAD  
P.O. BOX 5017  
DES PLAINES, ILLINOIS 60017-5017

SERIAL NUMBER: 10718050  
PATENT NUMBER:

FILING DATE:  
ISSUE DATE:

01/17/05 MON 18:16 FAX 847 391 2387 UOP PATENT DPT. +--+ PTO-CENTRAL-FAX 022  
OPR/ASSIGNMENTS 12/10/03 12:52 PAGE 3/4 RightFAX

014184/0292 PAGE 2

MARY BENTON, EXAMINER  
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